

● palm to ~~unite~~ ^{join} with radial artery
to form ~~deep~~ ^{superficial} volar arch.
superficial - crosses palm to unite with
branch of radial to form
superficial volar arch.
Pressure points - sub-clavian
- half way along clavicle.
- axilla.

Veins & lymph.

2 groups - deep & superficial.

● deep - follow arteries
(accompanying veins) venae comitantes
except sub-clavian & axillary.

Axillary vein - same extent as artery
- receives 2 superficial veins.

Basilic Median cubital - down and
Cephalic - thumb. laterally.

Sub-clavian - from outer border of 1st rib.
- to sterno-clavicular joint.
- unites with internal jugular
to form innominate - to
right atria of heart (vena cava)

Superficial - size dorsal venous network.

- Cephalic - passes up radial side of forearm, up arm along lateral border of biceps. Goes between Deltoid + Pectoral muscles - empties into

Major axillary vein, just below clavicle.

Basilic - begins at ulnar side of dorsal venous network - passes up posterior + ulnar side of forearm posteriorly + along medial border of biceps.

At middle of arm pierces deep fascia to lie beside the brachial artery, to empty into axillary vein.

Anastomoses - Median Cubital

- unites ^o Basilic + ^o Cephalic veins.

Median Anti - Brachial.

Lymph

Derived from blood plasma.

- pale, straw-colored.

All tissues bathed in it.

- is tissue fluid.

- is collected by lymph vessels.

- contain lymphatic nodes & glands.

- carries lymphocytes.

- begin in minute vessels in inter-cellular spaces.

Channels increase in size +

● anastomose freely, lying mostly in superficial fascia.

- at certain points - glands.
(elbow + axilla)

Glands - act as filters.

Bacteria - attacked in glands by phagocytes.

Lymph - from rt. side of head, thorax + rt. arm empty - rt. anominate vein.

- " - from rest of body, discharges into thoracic duct + then lt. inominate vein.

Thoracic duct -

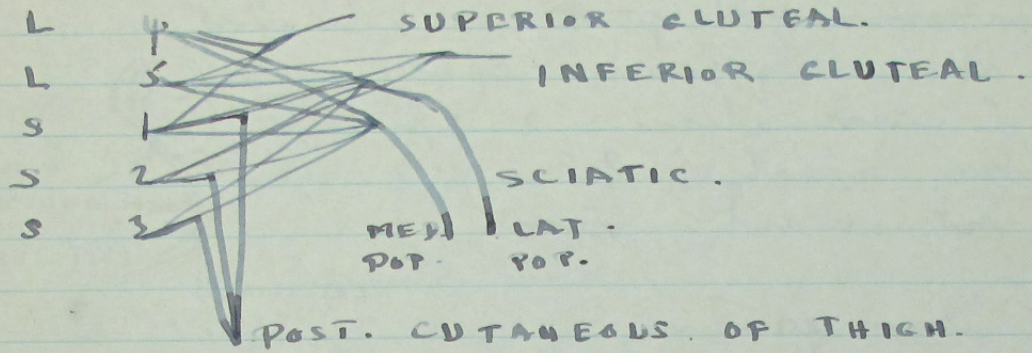
- passes up thoracic vertebrae - (front of bodies) - cysterna chyli between 1 + 2 n. (small heart.)
- up + through diaphragm, up to 1th vertebrae (cervical)

Arilla - 20 - 30 lymph glands.

Flow of lymph in resting muscles - slow. During muscular exercise + massage flow increased.

- depends on pressure
- during digestion - blood altered.

SACRO PLEXUS.



Arteries of Lower Extremity.

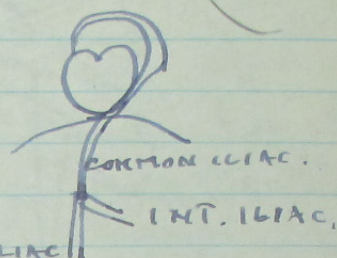
Lumbar sacral joint. 4-5 lumbar.

Descending aorta - caudae

Common iliac 2. + 2.

Lumbar sacral joint

Int. + ext. iliac.



Int. iliac artery.

- goes to genital region - bulboach. & to true pelvis. (muscles & skin)

Ext. iliac artery.

- enters thigh under inguinal lig. mid-way between ant. sup. iliac spine & symphysis pubis.

Becomes femoral artery.

Femoral artery.

↑ In femoral Δ (Scarspace Δ)

Passes down thigh under sartorius
1st superficial to adductor longus
& then on top of adductor magnus
2/3 down opening in adductor magnus
insertion then to back of knee joint to

Popliteal artery.

1) Branch - femoral profunda.

- 4 perforating arteries pass to back of thigh & nourish it.

Popliteal artery.

- from opening in adductor magnus to lower border of popliteus muscle.

2) - 5 genicular arteries - anastomosis at knee

Popliteal artery

- divides into Ant. Tibial A.
Post. Tibial A.

Ant. Tibial A.

- goes through inter osseous to leg where it descends to ankle joint to Dorsalis Pedis A.

Post. Tibial A.

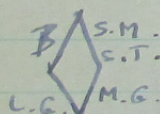
- straight down back of leg, curves medially, under flexor retinaculum to reach sole of foot where it divides into medial + lat. plantar arteries

med. malleolus
Calcaneus
Tibia
Fibula

Surface anatomy of A.

- With thigh flexed, abducts + out. rotated - feel femoral A. at mid - inguinal pt. to adductor tubercle

Popliteal A. - from med. to proximal L of the space.

 Extends to pt. to pt. level to tuberosity of tibia.

Post. tib. A. - Begins when popliteal ends + extends to a pt. mid-way between tip of medial malleolus + post. end of calcaneus.

Ant. tibial A.

Extends from pt. just distal & lateral to tuberosity of tibia to pt. midway between tips of malleoli.

Branch of Post-tibial A.

Peroneal A. lateral back of leg.

Veins of Inner Extremity

Deep veins accompany A. & some names Superficial "

Long Saphenous V. (Phlebitis)

Begins at medial side of foot passes up in front of med. malleolus, behind med. condyle of femur.

Runs - breadth medial to patella.

Empties into femoral Δ.

Short Saphenous V.

Lateral side of foot. ascends back of leg to enter into Popliteal Vein.

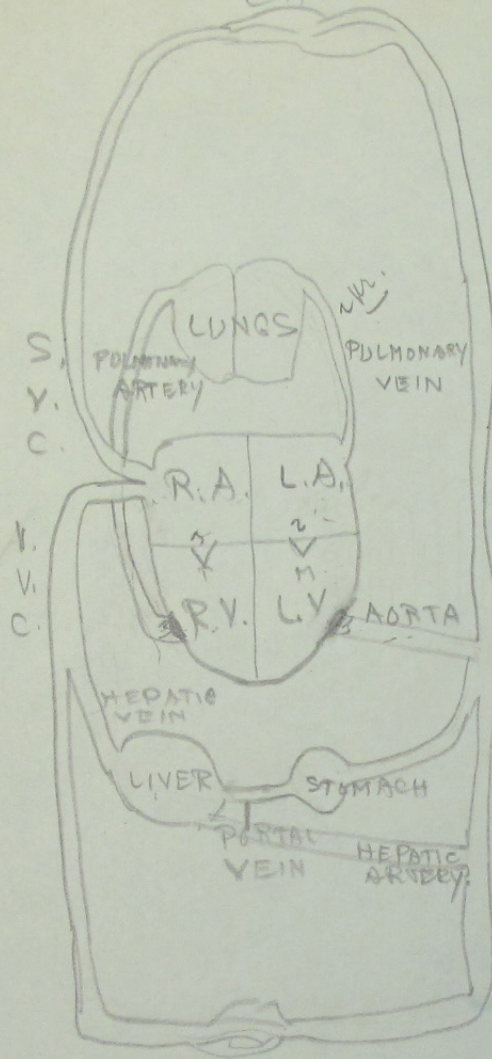
Lymph Glands.

- 6-7 lymph glands at back of knee.
- 12-20 - inguinal region.

Vessels - follow course of long saphenous to inguinal region.

- follow course of short s. v. to back of knee joint.

CAPILLARIES.



①

● Portal circulation

Through liver, loses glucose, directly from digestive system.

Disorders of blood system

Anemia, high blood pressure, leakage of heart, haemophilia.

Blood pressure

diet, thyroid, moderate exercise (outdoor)

Fluids of body - 88%

lymph.

blood - venous - impure - to heart.

arterial - pure - to body.

Five functions of blood.

- supplies food.

- respiratory

- excretory

- protective - toxins - vaccines

- maintains liquid content.

- maintains body temperature.

Blood - 5% of body wt.

- salt + minerals

- digested foods

- wastes

Solids - red + white corpuscles.

Plasma contains amino acids.

Fibrinogen - causes blood to clot.

- wastes from body metabolism.

Red blood corpuscles.

- like buttons

- 3000 in 1"

Anemia - too few red corpuscles.

Leukemia - rise in count.

spleen - stores them

high altitude produces more of them.

Trachea - bronchi, bronchioles - air sacs.



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